

CLAIMS:

1. A displacement device (1, 31) provided with a first part (3, 33) with a primary coil (4, 34) and a second part which can be moved in relation to the first part (9, 39), the second part (9, 39) being provided with a secondary coil (10, 40) which can be moved in relation to the primary coil (4, 34) and which is electrically connected to an electrically driven element, characterized in that at least one of the coils (4, 34, 10, 40) is an elongated coil which extends in a travel direction, in that the other coil (4, 34, 10, 40) can be moved in the travel direction in relation to the first coil (4, 34, 10, 40).
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2. A displacement device (1, 31) according to claim 1, characterized in that the primary coil (4, 34) is the elongated coil and in that the secondary coil (10, 40) is located inside the primary coil (4, 34).
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3. A displacement device (1, 31) according to claim 1 or 2, characterized in that a core (11, 41) extends through the coils (4, 34, 10, 40) transversely to the travel direction.
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4. A displacement device (1, 31) according to claim 3, characterized in that the core is provided with three parallel legs (11, 14, 15; 41, 44, 45) and two bridge sections (12, 13; 42, 43) connecting the extremities of the legs.
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5. A displacement device (1, 31) according to claim 4, characterized in that a middle leg (11, 41) extends through the two coils while the adjacent legs (14, 15; 44, 45) and the bridge sections (12, 13; 42, 43) are located around the two coils (4, 10; 34, 40).
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6. A displacement device (1, 31) according to one of the preceding claims, characterized in that the secondary coil (10, 40) can be moved farther in relation to the primary coil (4, 34) in at least a direction that extends transversely to the travel direction.